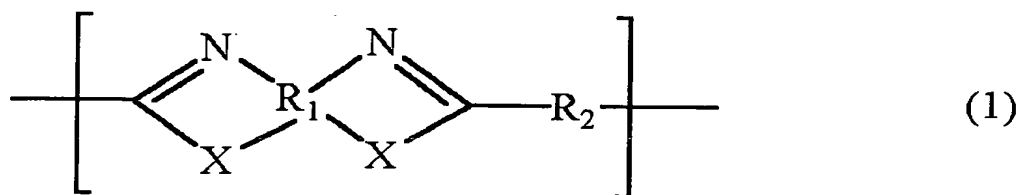


Abstract

The present invention relates to an optical resin comprising a poly(benzazole) having repeating units represented by the following general formula (1) as a constituent; and an optical waveguide, an optical filter and an optical lens prepared using the optical resin:



wherein R_1 represents a tetravalent organic group having an aromatic ring, N and X in each of the two sets thereof are linked to two atoms at the ortho-position on the aromatic ring of R_1 to form a 5-membered ring, R_2 represents a divalent organic group and X represents an oxygen atom or a sulfur atom.

The optical resin of the present invention has high transparency to light rays falling within the near infrared region, shows only small changes in the refractive index and the rate of birefringence as a function of wavelengths of light rays used for the measurement and falling within the near infrared region, has a low rate of birefringence and has high heat-resistance. Therefore, the optical resin of the present invention is suitably used as a resin for preparing optical parts, which are employed for the light rays falling within the wavelength range used in the optical communication.